

# SOIL MECHANICS

## Compaction of Soil

- S.1 Definition and purposes of soil compaction
- S.2 Dry density and water content relationship
- S.3 Laboratory test to obtain compaction characteristics
- S.4 Factors affecting compaction
- S.5 Effect of compaction on engineering behavior of fine grained soil
- S.6 Methods of compaction and compaction control at field, relative compaction



Abhash Acharya



## SOIL COMPACTION

- Compaction is a process of pressing soil particles close to each other by mechanical methods.
- In compaction air is expelled from the void space in soil mass and thus dry density of soil is increased.
- In other words, compaction is the densification of soil by removal of air which requires mechanical energy.



Abhash Acharya

## PURPOSE OF SOIL COMPACTION

- To increase the dry density of soil.
- Soil compaction is done to improve engineering

### Types of Foundation Settlement



# Elements Of Soil Mechanics Chapter 5

**Robert R. Redfield**



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